

Product brands by Wilhelmsen











# **ROCOR NB LIQUID**

# Wilhelmsen Ships Service AS\* Central Warehouse

Part Number: **571356** Version No: 12.22 Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Issue Date: 10/04/2024 Print Date: 15/04/2024 L.REACH.ISL.EN

#### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### 1.1. Product Identifier

Product name	ROCOR NB LIQUID
Chemical Name	Not Applicable
Synonyms	571356 (25 liter), PR No: 17129
Chemical formula	Not Applicable
Other means of identification	571356   UFI:P91W-X03F-800X-DKG6

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Chemical Product Category	PC37 Water treatment chemicals	
Sectors of Use	SU22 Professional uses SU3 Industrial uses	
Relevant identified uses	Water treatment	
Uses advised against	No specific uses advised against are identified.	

# 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Wilhelmsen Ships Service AS* Central Warehouse	Outback (M)SDS portal: http://jr.chemwatch.net/outb/account/autologin? login=wilhelmsen
Address	Willem Barentszstraat 50 Rotterdam Netherlands	Use our Outback portal to obtain our (M)SDSs in other languages and/or format For questions relating to our SDSs please use Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com Norway
Telephone	+31 10 4877 777	Not Available
Fax	Not Available	Not Available
Website	http://www.wilhelmsen.com	http://www.wilhelmsen.com
Email	wss.rotterdam@wilhelmsen.com	wss.global.sdsinfo@wilhelmsen.com

# 1.4. Emergency telephone number

Association / Organisation	Dutch nat. poison centre	24hrs - Chemwatch	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	+ 31 88 7558561	+31-10-4877700	+61 3 9573 3188
Other emergency telephone numbers	+ 31 10 4877700	+31-10-4877700	Not Available

Once connected and if the message is not in your preferred language then please dial 01

# **SECTION 2 Hazards identification**

# 2.1. Classification of the substance or mixture

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Classification according to regulation (EC) No 1272/2008 [CLP] and amendments <sup>[1]</sup>	H302 - Acute Toxicity (Oral) Category 4, H319 - Serious Eye Damage/Eye Irritation Category 2, H360FD - Reproductive Toxicity Category 1B
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### 2.2. Label elements

# Hazard pictogram(s)





Signal word

Danger

# Hazard statement(s)

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.

# Supplementary statement(s)

EUH208	Contains sodium 2-mercaptobenzothiazole. May produce an allergic reaction.
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# Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

# Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

# Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P330	Rinse mouth.

# Precautionary statement(s) Storage

P405	Store locked up.

## Precautionary statement(s) Disposal

Dispose of contents/container to dutiforised hazardous of special waste concettor point in accordance with any local regulation.	P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.
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Material contains sodium nitrite, sodium borate, decahydrate, sodium 2-mercaptobenzothiazole.

## 2.3. Other hazards

sodium borate, decahydrate	Listed in the European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation
sodium borate, decahydrate	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XIV List of Substances Subject to Authorisation
sodium borate, decahydrate	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

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# **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. 1303-96-4* 2.215-540-4 3.005-011-00-4					
4.Not Available	-3	sodium borate, decahydrate	Serious Eye Damage/Eye Irritation Category 2, Reproductive Toxicity Category 1B; H319, H360FD [1]	Not Available	Not Available
1. 7632-00-0 2.231-555-9 3.007-010-00-4 4.Not Available	0-25	sodium nitrite	Oxidizing Solids Category 3, Acute Toxicity (Oral) Category 3, Hazardous to the Aquatic Environment Acute Hazard Category 1; H272, H301, H400 <sup>[2]</sup>	*	Not Available
1. 2492-26-4 2.219-660-8 3.Not Available 4.Not Available	:1	sodium 2- mercaptobenzothiazole	Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H314, H317, H318, H400, H410 [3]	Not Available	Not Available

C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

## **SECTION 4 First aid measures**

# 4.1. Description of first aid measures

·	If this product comes in contact with the eyes:  • Wash out immediately with fresh running water.
Eye Contact	<ul> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> </ul>
	Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  ► Immediately remove all contaminated clothing, including footwear.  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.
	▶ If fumes or combustion products are inhaled remove from contaminated area.
Inhalation	<ul> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
	IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.     For advice, contact a Poisons Information Centre or a doctor.     Urgent hospital treatment is likely to be needed.     In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive
	measures as indicated by the patient's condition.  If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
Ingestion	If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.
	Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:
	▶ INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left sid
	(head-down position, if possible) to maintain open airway and prevent aspiration.  NOTE: Wear a protective glove when inducing vomiting by mechanical means.

# 4.2 Most important symptoms and effects, both acute and delayed

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#### 4.3. Indication of any immediate medical attention and special treatment needed

The toxicity of nitrates and nitrites result from their vasodilating properties and their propensity to form methaemoglobin.

- Most produce a peak effect within 30 minutes.
- ▶ Clinical signs of cyanosis appear before other symptoms because of the dark pigmentation of methaemoglobin.
- Initial attention should be directed towards improving oxygen delivery, with assisted ventilation, if necessary. Hyperbaric oxygen has not demonstrated conclusive benefits.
- Institute cardiac monitoring, especially in patients with coronary artery or pulmonary disease.
- Hypotension should respond to Trendelenburg's position and intravenous fluids; otherwise dopamine may be needed.
- Naloxone, glucose and thiamine should be given if a multiple ingestion is suspected.
- Decontaminate using Ipecac Syrup for alert patients or lavage for obtunded patients who present within 2-4 hours of ingestion.
- Symptomatic patients with methaemoglobin levels over 30% should receive methylene blue. (Cyanosis alone, is not an indication for treatment). The usual dose is 1-2 mg/kg of a 1% solution (10 mg/ml) IV over 5 minutes; repeat, using the same dose if symptoms of hypoxia fail to subside within 1 hour.

[Ellenhorn and Barceloux: Medical Toxicology]

**BIOLOGICAL EXPOSURE INDEX - BEI** 

These represent the determinants observed in specimens collected from a healthy worker who has been exposed at the Exposure Standard (ES or TLV):

Determinant Index Sampling Time Comments

1. Methaemoglobin in blood 1.5% of haemoglobin During or end of shift B,NS,SQ

- B: Background levels occur in specimens collected from subjects NOT exposed
- NS: Non-specific determinant: also observed after exposure to other materials
- SQ: Semi-quantitative determinant Interpretation may be ambiguous; should be used as a screening test or confirmatory test.

## **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

#### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

# 5.3. Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	WARNING: May EXPLODE on heating!!!  Non combustible.  Not considered a significant fire risk, however containers may burn.  Decomposition may produce toxic fumes of:  nitrogen oxides (NOx)  May emit poisonous fumes.  May emit corrosive fumes.

#### **SECTION 6 Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

# 6.3. Methods and material for containment and cleaning up

# Minor Spills Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up.

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▶ Place in a suitable, labelled container for waste disposal. Moderate hazard. ▶ Clear area of personnel and move upwind. • Alert Fire Brigade and tell them location and nature of hazard. **Major Spills** Wear breathing apparatus plus protective gloves. ▶ Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. ▶ Contain spill with sand, earth or vermiculite.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

7.11.1 Tecautions for sale in	anding
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Fire and explosion protection	See section 5
Other information	

## 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Inorganic reducing agents react with oxidizing agents to generate heat and products that may be flammable, combustible, or otherwise reactive. Their reactions with oxidizing agents may be violent.</li> <li>Incidents involving interaction of active oxidants and reducing agents, either by design or accident, are usually very energetic and examples of so-called redox reactions.</li> <li>for metal nitrates:</li> <li>Segregate from heavy metals, phosphides, sodium acetate, lead nitrate, tartrates, trichloroethylene,</li> <li>Avoid shock and heat.</li> <li>Mixtures of metal nitrates with alkyl esters may explode due to the formation of unstable alkyl nitrates.</li> <li>Mixtures of a nitrate with phosphorous, tin(II) chloride and other reducing agents may react explosively.</li> <li>Mixtures containing nitrates and organic materials are potentially dangerous, especially if acidic materials or heavy metals are present.</li> <li>Fibrous organic material, jute, wood and similar cellulosic material can become highly combustible by nitrate impregnation</li> <li>Metal nitrates are incompatible with cyanides, thiocyanates, isothiocyanates and hypophosphites. Avoid reaction with the following which can cause an explosion: barium thiocyanate, boron phosphide, cyanides, sodium hypophosphite, sulfur and charcoal, powdered aluminium or aluminium oxide, sodium thiosulfate.</li> <li>Mixtures of metal nitrates and phosphinates may explode on heating</li> <li>A mixture of aluminium powder, water and metal nitrate may explode due to a self accelerating reaction.</li> <li>Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous</li> <li>Avoid storage with reducing agents.</li> </ul>
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available















- х - Must not be stored together
- May be stored together with specific preventions
- May be stored together

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Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

#### 7.3. Specific end use(s)

See section 1.2

## **SECTION 8 Exposure controls / personal protection**

## 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
sodium nitrite	Inhalation 2 mg/m³ (Systemic, Chronic) Inhalation 2 mg/m³ (Systemic, Acute)	0.005 mg/L (Water (Fresh)) 0.005 mg/L (Water - Intermittent release) 0.006 mg/L (Water (Marine)) 0.019 mg/kg sediment dw (Sediment (Fresh Water)) 0.022 mg/kg sediment dw (Sediment (Marine)) 0.001 mg/kg soil dw (Soil) 21 mg/L (STP)
sodium 2- mercaptobenzothiazole	Dermal 2.8 mg/kg bw/day (Systemic, Chronic) Inhalation 10 mg/m³ (Systemic, Chronic) Inhalation 1 mg/m³ (Local, Chronic) Dermal 2.8 mg/kg bw/day (Systemic, Acute) Inhalation 10 mg/m³ (Systemic, Acute) Inhalation 1 mg/m³ (Local, Acute) Dermal 1.5 mg/kg bw/day (Systemic, Chronic) * Inhalation 2.5 mg/m³ (Systemic, Chronic) * Oral 1.5 mg/kg bw/day (Systemic, Chronic) * Inhalation 1 mg/m³ (Local, Chronic) * Dermal 1.5 mg/kg bw/day (Systemic, Acute) * Inhalation 2.5 mg/m³ (Systemic, Acute) * Oral 1.5 mg/kg bw/day (Systemic, Acute) * Inhalation 1 mg/m³ (Local, Acute) *	0.004 mg/L (Water (Fresh)) 0.005 mg/L (Water - Intermittent release) 0 mg/L (Water (Marine)) 0.147 mg/kg sediment dw (Sediment (Fresh Water)) 0.015 mg/kg sediment dw (Sediment (Marine)) 0.027 mg/kg soil dw (Soil) 0.3 mg/L (STP)

<sup>\*</sup> Values for General Population

## Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Iceland Occupational Exposure Limits	sodium borate, decahydrate	Borax (sodium tetraborate decahydrate)	2 mg/m3	Not Available	Not Available	the substance can easily enter the body through the skin
Europe ECHA Occupational exposure limits substance evaluations	sodium borate, decahydrate	Not Available	Not Available	Not Available	Not Available	Not Available

# Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
sodium borate, decahydrate	6 mg/m3	190 mg/m3	1,100 mg/m3
sodium nitrite	6.4 mg/m3	71 mg/m3	240 mg/m3

Ingredient	Original IDLH	Revised IDLH
sodium borate, decahydrate	Not Available	Not Available
sodium nitrite	Not Available	Not Available
sodium 2- mercaptobenzothiazole	Not Available	Not Available

# Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
sodium nitrite	Е	≤ 0.01 mg/m³	
sodium 2- mercaptobenzothiazole	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

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Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bioaccumulation and other endpoints combine to warrant such a limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA.

#### 8.2. Exposure controls

#### Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: 8.2.1. Appropriate Process controls which involve changing the way a job activity or process is done to reduce the risk. engineering controls Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. 8.2.2. Individual protection measures, such as personal protective equipment Safety glasses with side shields. Chemical goggles, [AS/NZS 1337.1, EN166 or national equivalent] ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should Eye and face protection include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Skin protection See Hand protection below Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material Hands/feet protection can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. See Other protection below **Body protection** Overalls. P.V.C apron. Other protection Barrier cream. Skin cleansing cream. ▶ Eye wash unit.

# Respiratory protection

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- · The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- · Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- · Use approved positive flow mask if significant quantities of dust becomes airborne.
- · Try to avoid creating dust conditions.

Class P2 particulate filters are used for protection against mechanically and thermally generated particulates or both.

P2 is a respiratory filter rating under various international standards, Filters at least 94% of airborne particles Suitable for:

- · Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.
- $\cdot$  Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.
- · Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

# 8.2.3. Environmental exposure controls

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See section 12

# **SECTION 9 Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Appearance	Red		
Physical state	Liquid	Relative density (Water = 1)	1.11 - 1.13
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	9.5 - 10.5	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

# **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

# **SECTION 11 Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.  The substance and/or its metabolites may bind to haemoglobin inhibiting normal uptake of oxygen. This condition, known as "methaemoglobinemia", is a form of oxygen starvation (anoxia).

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Symptoms include cyanosis (a bluish discolouration skin and mucous membranes) and breathing difficulties. Symptoms may not be evident until several hours after exposure.

At about 15% concentration of blood methaemoglobin there is observable cvanosis of the lips, nose and earlobes. Symptoms may be absent although euphoria, flushed face and headache are commonly experienced. At 25-40%, cyanosis is marked but little disability occurs other than that produced on physical exertion.

The lethal oral dose of nitrite for adults has been variously reported to be between 0.7 and 6 g NO2- (approximately 10 to 100 mg NO2-/kg). Lower doses may apply for children (especially neonates), the elderly and people with certain enzyme deficiencies. The first symptoms of oral nitrite poisoning develop within 15 to 45 minutes

In humans, inorganic nitrites produce smooth muscle relaxation, methaemoglobinaemia and cyanosis. The primary effect of nitrite intoxication in animals is methaemoglobinaemia whilst secondary effects include vasodilation, relaxation of smooth muscle and lowering of blood pressure. Other nitrite-induced toxic effects include abdominal pain, diarrhoea, atrophied intestinal villi and apoptotic cell death in the intestinal crypts. Nitrite may also cause sudden fall in blood pressure due to its vasodilating properties. Nitrite has vasodilating properties, probably through transformation into nitric oxide (NO) or a NO-containing molecule acting as a signal factor for smooth muscle relaxation.

Fatal poisonings in infants, resulting from ingestion of nitrates in water or spinach, have been reported.

When sodium nitrite was administered in drinking water for 6 weeks (0.06-1%), mice showed a slight degeneration and spotty necrosis of hepatocytes and haemosiderin deposition in the liver, spleen and lymph nodes, indicating haemolysis.

#### Skin Contact

Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

The material may accentuate any pre-existing dermatitis condition

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

#### Eye

Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals. Repeated or prolonged eye contact may cause inflammation (similar to windburn) characterised by a temporary redness of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.

There is sufficient evidence to establish a causal relationship between human exposure to the material and impaired fertility There is sufficient evidence to provide a strong presumption that human exposure to the material may result in developmental toxicity, generally on the basis of:

- clear results in appropriate animal studies where effects have been observed in the absence of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not secondary non-specific consequences of the other toxic

# Chronic

The major concern of possible long-term effects of exposure to nitrate and nitrite is associated with formation of nitroso compounds, many of which are carcinogenic. This formation may take place wherever nitrite and nitrosable compounds are present, but it is favoured by acidic conditions or the presence of some bacteria. The gastrointestinal tract and especially the stomach is regarded as the main formation site, but nitrosation reactions can also take place in an infected urinary bladder. Nitrite is mutagenic in a number of in vitro assays against microorganisms or cultured mammalian cells. Nitrates show no mutagenic activity in microbial tests under aerobic conditions. Activity has been reported under anaerobic conditions, probably due to reduction of nitrate into nitrite

The mutagenic effects of nitrites were observed in an in vivo and in vitro experiment using Syrian hamsters. In vivo assays have been equivocal, both positive and negative results having been reported

Exposure to sodium nitrite in drinking water resulted in an increased incidence of epithelial hyperplasia in the forestomach of male and female rats and in the glandular stomach of male mice.

On the basis, primarily, of animal experiments, concern has been expressed by at least one classification body that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment.

Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.

ROCOR NB LIQUID	TOXICITY	IRRITATION	
	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >10,000 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
sodium borate, decahydrate	Inhalation (Rat) LC50: >2.0 mg/L <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (man) LDLo: 709 mg/kg <sup>[2]</sup>		
	Oral (Rat) LD50: 2660 mg/kg <sup>[2]</sup>		
sodium nitrite	тохісіту	IRRITATION	
	Inhalation (Rat) LC50: 0.006 mg/L4h <sup>[2]</sup>	Eye (rabbit): 500 mg/24hr - mild	

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	Oral (Rat) LD50: 180 mg/kg <sup>[2]</sup>		
sodium 2- mercaptobenzothiazole	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 5010 mg/kg <sup>[2]</sup>	Eye : SEVERE*	
	Oral (Rat) LD50: 5200 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
		Skin: SEVERE / Sensitiser* [Vanderbilt]	
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.</li> <li>Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances</li> </ol>		

sodium borate, decahydrate

Oral (rat) LD50: 4500-5000 mg/kg Eyes (rabbit) (-) Mild [Orica BORAX-Europe] Reproductive effector in rats Mutagenic towards bacteria

#### SODIUM NITRITE

Tumoriaenic - Carcinogenic by RTECS criteria.

Exposure to the material may result in a possible risk of irreversible effects. The material may produce mutagenic effects in man. This concern is raised, generally, on the basis of appropriate studies using mammalian somatic cells in vivo. Such findings are often supported by positive results from in vitro

mutagenicity studies.

Data for 50% aqueous solution Evidence of carcinogenic activity in rats; increased incidence of mononuclear cell leukemias,

pancreatic cell and pituitary adenomas and adrenal gland pheochromocytomas following vegetable oil gavage.\*

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The

pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.

The material may produce respiratory tract irritation. Symptoms of pulmonary irritation may include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and a burning sensation.

Unlike most organs, the lung can respond to a chemical insult or a chemical agent, by first removing or neutralising the irritant and then repairing the damage (inflammation of the lungs may be a consequence).

#### SODIUM 2-MERCAPTOBENZOTHIAZOLE

The repair process (which initially developed to protect mammalian lungs from foreign matter and antigens) may, however, cause further damage to the lungs (fibrosis for example) when activated by hazardous chemicals. Often, this results in an impairment of gas exchange, the primary function of the lungs. Therefore prolonged exposure to respiratory irritants may cause sustained breathing difficulties.

for 2-mercaptobenzothiazole (MBT)

The sulfenamide group (-NH-C(=S)-S-) is the prime determinant of toxicity for all members of the Benzothiazole-based Thiazoles category. The acute and subchronic toxicity of MBT is relatively low. Skin and eye irritation effects are not present or are mild, but allergic skin reaction is possible in susceptible persons.

Data from *in vitro* and *in vivo* studies indicate a low concern for mutagenicity caused by MBT.

Mercaptobenzothiazole (MBT) is a potent skin sensitiser in man and cross reactions with other rubber chemicals can occur. It is also a skin irritant in man. A solution of the sodium salt caused irreversible damage to the rabbit eye. MBT and its sodium salt were of low acute general toxicity in laboratory animals treated by the oral and dermal routes. The target sites following oral administration included the central nervous system (CNS), lung, liver, kidney and gastro-intestinal tract, and rabbits treated dermally also suffered CNS effects.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

#### ROCOR NB LIQUID & sodium borate, decahydrate & SODIUM 2-MERCAPTOBENZOTHIAZOLE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

#### SODIUM NITRITE & SODIUM 2-MERCAPTOBENZOTHIAZOLE

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	~
Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	×

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Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×

Legend: 

∠ - Data either not available or does not fill the criteria for classification

✓ - Data available to make classification

Aspiration Hazard

#### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Mutagenicity

No evidence of endocrine disrupting properties were found in the current literature.

#### 11.2.2. Other information

See Section 11.1

#### **SECTION 12 Ecological information**

#### 12.1. Toxicity

Not Available Endpoint	Not Available  Test Duration (hr)	Not Available  Species	Not Available	Not Available
•	Test Duration (hr)	Chanina		
EC50		Species	Value	Source
	48h	Crustacea	1332- 2135mg/l	4
EC50(ECx)	48h	Crustacea	1332- 2135mg/l	4
Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	672h	Fish	0.01mg/l	4
EC50	72h	Algae or other aquatic plants	>100mg/l	2
EC50	96h	Algae or other aquatic plants	1600mg/L	4
EC50	48h	Crustacea	ca.12.51mg/l	1
LC50	96h	Fish	<0.001mg/L	4
Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	0.1-2mg/l	4
LC50	96h	Fish	0.31- 9.03mg/L	4
EC50(ECx)	96h	Algae or other aquatic plants	0.04- 3mg/l	4
EC50	96h	Algae or other aquatic plants	0.04- 3mg/l	4
EC50	48h	Crustacea	0.71mg/l	2
	NOEC(ECx) EC50 EC50 EC50 LC50 Endpoint EC50 LC50 EC50 EC50(ECx)	NOEC(ECx)         672h           EC50         72h           EC50         96h           EC50         48h           LC50         96h           Endpoint         Test Duration (hr)           EC50         72h           LC50         96h           EC50(ECx)         96h           EC50         96h	NOEC(ECx)         672h         Fish           EC50         72h         Algae or other aquatic plants           EC50         96h         Algae or other aquatic plants           EC50         48h         Crustacea           LC50         96h         Fish           Endpoint         Test Duration (hr)         Species           EC50         72h         Algae or other aquatic plants           LC50         96h         Fish           EC50(ECx)         96h         Algae or other aquatic plants           EC50         96h         Algae or other aquatic plants	NOEC(ECx)         672h         Fish         0.01mg/l           EC50         72h         Algae or other aquatic plants         >100mg/l           EC50         96h         Algae or other aquatic plants         1600mg/L           EC50         48h         Crustacea         ca.12.51mg/l           LC50         96h         Fish         <0.001mg/L

Toxic to aquatic organisms.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

The nitrates are of environmental concern because of their high water solubility and consequent leaching, diffusion, and environmental mobility in soil and water. Nitrate can contaminate groundwater to unacceptable levels. Nitrite is formed from nitrate or ammonium ion by micro-organisms in soil, water, sewage and the alimentary tract. The concern with nitrate in the environment is related to its conversion to nitrite.

Methaemoglobinaemia is caused following exposure to high levels of nitrite and produces difficulties in oxygen transport in the blood. Thousands of cases involving poisoning of infants, particularly in rural areas, have been reported as a result of drinking nitrate rich well-water.

Other concerns deriving from exposure to environmental nitrates relate to the production of nitrosamines following the reaction of food nitrites and secondary amines.

DO NOT discharge into sewer or waterways.

# 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium nitrite	LOW	LOW

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Persistence: Water/Soil Persistence: Air Ingredient sodium 2-HIGH HIGH mercaptobenzothiazole

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
sodium nitrite	LOW (LogKOW = 0.0564)
sodium 2- mercaptobenzothiazole	LOW (LogKOW = 1.8295)

### 12.4. Mobility in soil

Ingredient	Mobility
sodium nitrite	LOW (Log KOC = 23.74)
sodium 2- mercaptobenzothiazole	LOW (Log KOC = 21.41)

#### 12.5. Results of PBT and vPvB assessment

	Р	В	Т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?			No	
vPvB			No	

#### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

#### **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- ▶ Reuse
- Recycling
- Disposal (if all else fails)

#### Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ▶ Recycle wherever possible.
- ▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

	<ul> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>		
Waste treatment options	Not Available		
Sewage disposal options	Not Available		

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# **SECTION 14 Transport information**

## **Labels Required**

Marine Pollutant	NO

# Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Lanu	Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS				
14.1.	UN number or ID number	Not Applicable	Not Applicable		
14.2.	UN proper shipping name	Not Applicable	Not Applicable		
14.3.	Transport hazard	Class	Not Appli	able	
	class(es)	Subsidiary Hazard	Not Appli	able	
14.4.	Packing group	Not Applicable	Not Applicable		
14.5.	Environmental hazard	Not Applicable			
		Hazard identification	(Kemler)	Not Applicable	
		Classification code		Not Applicable	
14.6.	Special precautions	Hazard Label		Not Applicable	
	for user	Special provisions		Not Applicable	
		Limited quantity		Not Applicable	
		Tunnel Restriction C	ode	Not Applicable	

# Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
	ICAO/IATA Class	Not Applicable	
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable	
Class(es)	ERG Code	Not Applicable	
4.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Special provisions		Not Applicable
	Cargo Only Packing Instructions		Not Applicable
	Cargo Only Maximum Qty / Pack		Not Applicable
4.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable
ioi usei	Passenger and Cargo Maximum Qty / Pack		Not Applicable
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable	Not Applicable		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Ha	IMDG Class     Not Applicable       IMDG Subsidiary Hazard     Not Applicable		
14.4. Packing group	Not Applicable			
14.5 Environmental hazard	Not Applicable			
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	Not Applicable  Not Applicable  Not Applicable		

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# Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	Not Applicable Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Classification code	lot Applicable		
	Special provisions	lot Applicable		
14.6. Special precautions for user	Limited quantity	lot Applicable		
	Equipment required	lot Applicable		
	Fire cones number	lot Applicable		

#### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium borate, decahydrate	Not Available
sodium nitrite	Not Available
sodium 2- mercaptobenzothiazole	Not Available

# 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium borate, decahydrate	Not Available
sodium nitrite	Not Available
sodium 2- mercaptobenzothiazole	Not Available

#### **SECTION 15 Regulatory information**

#### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

# sodium borate, decahydrate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regula\tion (EC) No 1907/2006 - Annex XVII (Appendix 6) Reproductive toxicants: Category 1 B

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Proposals to identify Substances of Very High Concern: Annex XV reports for commenting by Interested Parties previous consultation

Europe European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

Europe Regulation (EC) No 1907/2006 - Annex XIV List of Substances Subject to Authorisation

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

Iceland Occupational Exposure Limits

#### sodium nitrite is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2A: Probably carcinogenic to humans

# sodium 2-mercaptobenzothiazole is found on the following regulatory lists

Europe EC Inventory

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European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

#### **Additional Regulatory Information**

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

# Information according to 2012/18/EU (Seveso III):

Seveso Category	Not Available
-----------------	---------------

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium borate, decahydrate; sodium nitrite; sodium 2-mercaptobenzothiazole)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (sodium borate, decahydrate)
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	No (sodium 2-mercaptobenzothiazole)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

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Initial Date	19/09/2017

#### CONTACT POINT

- For quotations contact your local Customer Services - http://wssdirectory.wilhelmsen.com/#/customerservices - - Responsible for safety data sheet Wilhelmsen Ships Service AS - Prepared by: Compliance Manager, - Email: email: wss.global.sdsinfo@wilhelmsen.com - Telephone: Tel.: +47 67584000

# Full text Risk and Hazard codes

H272	May intensify fire; oxidiser.	
H301	Toxic if swallowed.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

## **SDS Version Summary**

Version	Date of Update	Sections Updated
11.22	26/09/2023	Toxicological information - Acute Health (inhaled), First Aid measures - Advice to Doctor, Toxicological information - Chronic Health, Hazards identification - Classification, Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Identification of the substance / mixture and of the company / undertaking - Synonyms

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#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Acute Toxicity (Oral) Category 4, H302	On basis of test data	
Serious Eye Damage/Eye Irritation Category 2, H319	Expert judgement	
Reproductive Toxicity Category 1B, H360FD	Calculation method	
, EUH208	Calculation method	

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